



A.D. 1869, 17th DECEMBER. N^o 3653.

S P E C I F I C A T I O N

OF

RALPH IDLE AND GEORGE NAYLOR.

CONSUMING SMOKE.

L O N D O N :

PRINTED BY GEORGE E. EYRE AND WILLIAM SPOTTISWOODE,
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25, SOUTHAMPTON BUILDINGS, HOLBORN.

1870.



A.D. 1869, 17th DECEMBER. N° 3653.

Consuming Smoke.

(This Invention received Provisional Protection only.)

PROVISIONAL SPECIFICATION left by Ralph Idle and George Naylor at the Office of the Commissioners of Patents, with their Petition, on the 17th December 1869.

We, RALPH IDLE and GEORGE NAYLOR, both of Earls Heaton, near Dewsbury, in the County of York, do hereby declare the nature of the said Invention for “IMPROVEMENTS IN APPARATUS FOR CONSUMING SMOKE,” to be as follows:—

This Invention of improvements in apparatus for consuming smoke will be readily understood by reference to the accompanying Drawings.

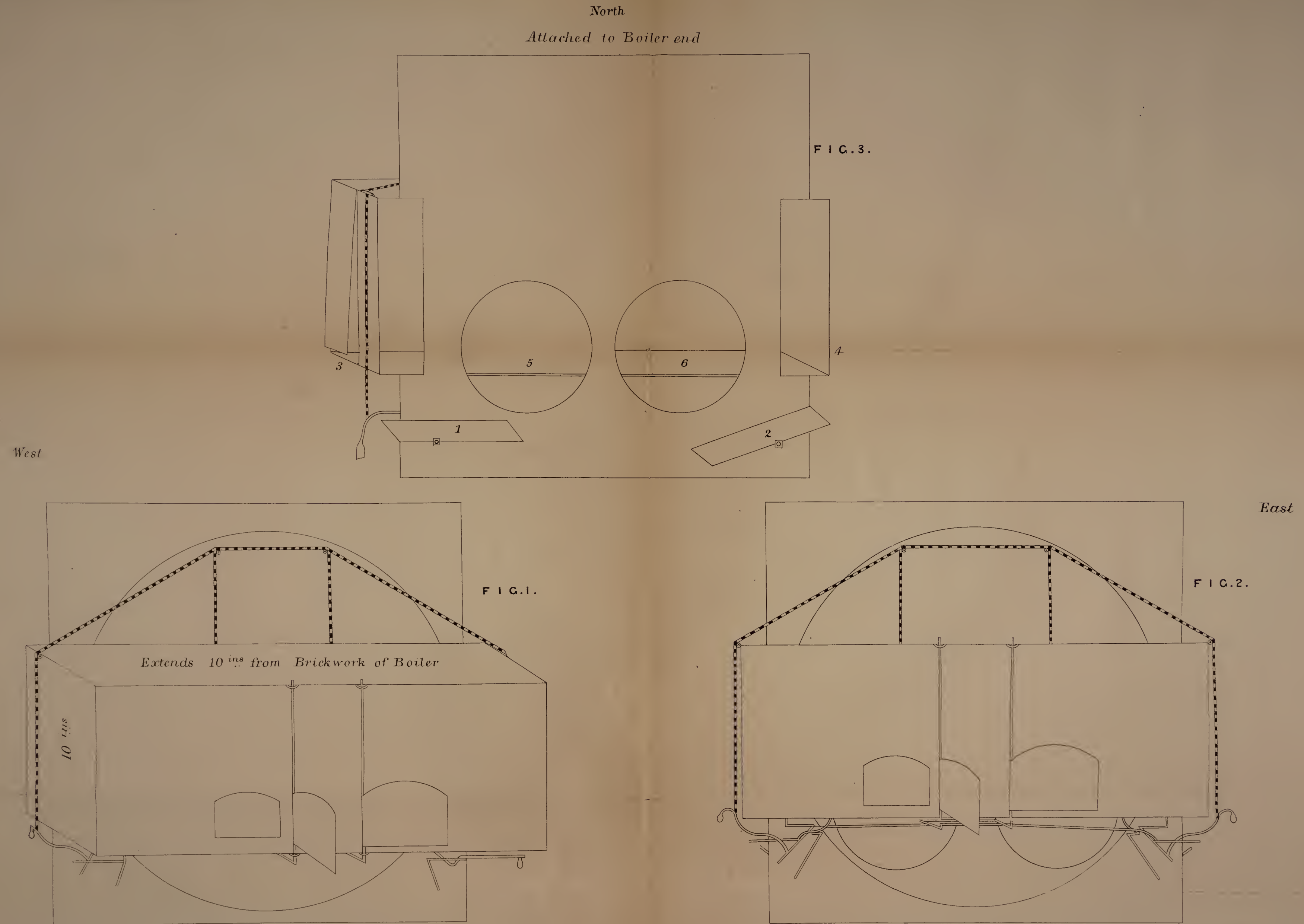
10 Fig. 1 is a side view of an iron flue fixed to the end of a boiler in the form of a rectangular parallelogram, ten or eleven inches wide, and about two feet six inches in depth (which will vary according to the size of the boiler); this flue is furnished with 6 dampers and 2 hinged doors, chains, rods, and pulleys, with which it is worked, and as shewn
15 on Drawings. Supposing the left hand door in Fig. 2 be opened for fuel, and the door being closed again, the damper No. 5, represented in Fig. 3, shuts, and the damper No. 6 in the same Figure opens at the same time and receives the newly made smoke after it has passed northward up the flue of the boiler, it then passes along the end of the

Idle & Naylor's Improvements in Apparatus for Consuming Smoke.

flue westward, thence up the southward side to the damper No. 1 in Fig. 3, it then enters the iron tube or flue at the west end through damper No. 3, and passes on through damper No. 6 into the highly heated fire, where it is consumed. The smoke made in the right hand fire undergoes a similar process, and is in its turn consumed by 5 the left hand fire when at its greatest heat. So that it will be seen while one fire is at its greatest heat the other fire is being fed and its smoke consumed, and so on alternately and continuously.

LONDON:

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Printers to the Queen's most Excellent Majesty. 1870.



The drawing left with Provisional Specification is partly colored.

Drawn on Stone by Malby & Sons.

